

SIGNING IN-Dick Chapman (3154), left, assists the first group of the 100 Youth Opportunity Campaign participants who joined Sandia Laboratory for the summer. This is
the third year that Sandia has participated in the national program which provides mean ingful work and training opportunities for students. The trainees are, from left, Leonard Sanchez, Ural Mitchell, Annfred Platero and Katherine Armijo.

## Third Youth Opportunity Program Starts

For the third summer, Sandia Corporation is participating in President Johnson's Youth Opportunity Campaign to provide temporary summer work and training experience for students returning to school in their qualifications and degree of economic need.
At Sandia Laboratory, 100 Youth Opportunity Trainees signed in during the past two weeks. Nine will join the Com pany at Livermore Laboratory and one a Tonopah Test Range
In addition to performing work which will benefit the Company and the experiences which will benefit the student by introducing a new environment and further developing various skills-the em ployment at Sandia will help make it pos sible for the students to continue their education.

Of the group, 38 are rehires from last year. In 1965, Sandia hired 80 students. In 1966, 81 were hired.
Ages of the trainees range from 16 through 21. The majority (53) have at through 21. The majority (53) have a least finished high school Fight will be high school seniors next year. In recruiting the students, Sandia had the cooperation of local schools and state employment offices. An effort was made to solicit the interest of last year' trainees to realize as much savings as possible on required security clearances and training
Trainees again this year will help carry out assignments in cierical, manual and laboratory areas
following trainees, interviewed by the SANDIA LAB NEWS after less than (Continued on Page Six)

## K. R. Braziel Appointed To <br> Head Special Projects at AEC's Sandia Area Office



Kenneth R. Braziel has been appointed chief of the ecently - established Branch at the Atomic Energy Com mission's Sandia Area Office.
In his new position, Mr. Braziel is responsible for analysis of Sandia Corporation activities related to weapons research and development and full-scale testing, AEC-funded non-weapons projects such as detection of nuclear explosions, peaceful uses of nuclear explosives and aerospace nuclea afety; and reimbursable work performed by Sandia for other Federal agencies.
Mr. Braziel, who has been chief of Proramming and Control Branch, Office of erations Office (ALO) since 1959, joined the AEC at Richland, Wash., in January 1952. He transferred to ALO in 1955. He previously was with the Army Corps of Engineers and was a mathematics instructor at Montana State College
He received BS degrees in applied science and civil engineering from Montana State College. During World War II, he served Force.

## Walter Westman Re-Elected To IDEP Advisory Board



Walter W. Westman, supervisor of Quality Engineer-ing-Nonweapon Activities Division 2435, was re-elected executive secretary and a member of the Contractor Advisory Board of Inchange Program annual conference in Houston recently
IDEP, which is made up of some 160 Government agencies and contractors en gaged in missile, space and related programs, is designed to establish an exchange of test data on component parts.
Walt, who is the Sandia IDEP representative, has served a year as executive secretary and two one-year terms on the 14-member national advisory board. His current term is for two years. He also served as arrangements chairman of the third annual IDEP conference in Albuquerque two years ago.

## Finance Tellers' Hours

 Will Be Different on July 3The tellers' windows in the finance of fice, Bldg. 802, Rm. 122, will be closed Monday, July 3, until approximately 10 a.m. This is necessary due to year-end closing activities, according to C. Olajos, 6020 department manager.

SANDIA LAB NEWS

VOL. 19, NO. 12, JUNE 16, 1967

## SANDIA LABORATORIES

ALbuQuerque, new mexico: Livermore, california

## Computers Help <br> IMOG Develops ADDS to Maintain And Distribute AEC Materiel Lists

## 49 Employees Complete Tech Development Program



NEW AUTOMATED MATERIEL LIST system is explained to a group of Sandians by R. E Garin (2225). The new procedure is being implemented at Sandia Laboratories and AEC production facilifies.

Computer-processed material lists for weapon and non-weapon programs soon will be maintained and distrbuted as par of an Automated Drawing Data System (ADDS
The development of ADDS is a joint Interagency Mechanical Operations Group (IMOG) effort of AEC production agencies and Sandia Corporation. By reducing manual operations, the new system will eliminate repetitive handling of data, provide consistent data, shorten the intervals beimprove the contro of ersireing dat improve the control of engineering data.
In recent years there has been a tremendous increase in the amount of technical information which must be exchanged rapidly and accurately by AEC contractor engaged in development, production and storage activities. For example, Sandia drawings and specifications each moth drawings and specifications each month
The Automated Materiel List (AML), a subsystem of ADDS, is currently being im plemented at Sandia and Livermore Lab oratories and other AEC-contractor facilities. The AML system will replace the lists of materials, parts and specifications for-
merly maintained manually on design merly maintained manually on design
drawings or as separate listings
Under the new AML procedure, non graphic design data are normally prepare by the design or production agency drafts man for processing by the computer. Th computer produces the materiel list and a message for transmission over a new security-protected communications sys tem to the appropriate AEC design or pro duction facilities

At the receiving facility, the information is fed into a computer which prints a facsimile materiel list. Thus identica materiel lists can be distributed at th design and production facilities at es sentially the same time although no two AEC agencies have identical computer facilities.

Implementation of the broad ADDS sys tem will be accomplished in stages that wil permit integral subsystems, such as AML to be assimilated into new and current pro grams. Among the several other ADDS sub systems planned, current projects include computer-prepared interproject group shipment listings, which will be released starting next month, and automation of engineering change data for printing new Acceptance Index, formerly called a
product record.
orty-nine members of the 1967 Technical Development Program class received congratulations from President John A. Hornbeck and Vice President Glenn A. Fowler, chairman of Sandia's Education Committee, at a luncheon last weck. The occasion recognized the completion of oneyear and two-year programs of advanced study at the University of New Mexico. TDP participants work at regular assignments half the day, attend classes the other half.
Members of the Sandia Small Staff and Education Committee were introduced by Mr. Fowler who said, "We are acknowledging our pleasure at seeing you complete the Technical Development Program. We are very pleased. It is a good program and it has accomplished its objectives of further preparing top graduates from top schools to work in the advanced areas of Sandia's special interests.
Mr. Hornbeck, in congratulating the group, noted that the "academic competition must have been fierce." Students in the group were among the top five percent of graduates from their respective schools before entering TDP at Sandia.
"All of us are concerned with a continuing technical education," Mr. Hornbeck said. "It is abundantly clear that the rate of new developments in technology and science makes keeping current a continuous process. We must constantly adapt to new fields and keep learning in new areas.
Twelve of the participants in the program were hired with Master's degrees and develop specifically for Sandia Corporadeveloped specifally for Sand Corporaroup are Floyd W Adams (9225), (this group are Floyd W. Adams (9225), George Dwight S Hill (7244), Gerald J Hochrein (9326) James L Jorgensen (1423) Stewart M. Kohler (1320), William R Leuenberger (1322) James K. Linn (9233), Bruce W (7222), Douglas C. Smathers (9227) and Ivan G. Waddoups (9333)
Also completing one year of TDP participation was Donald J. Rigali (9326), an on-roll employee who joined the program after meeting the requirements under Sandia's Educational Aids Program
Thirty-six TDP students joined Sandia with Bachelor's degrees and completed two ears of advanced study under TDP. Members of this group are Paul G. Beck (9234), Glen W. Belden (1425), Ronald D. Bentley (7211), Richard R. Berlint (9425), Bennie F. Blackwell (9326), John A. Brammer (9331), David M. Darsey (7334), Paul R. Dodge (7122), Thomas A. Duffey, Jr. (1142), Burt Edwards, Jr. (9226), John L. Fallon (1333), John S. Farnbach (9422), Lewis J. Gorin (7222), Richard G. Hay (Continued on Page Eight)


GRADUATING FROM SANDIA'S apprenticeship program June 2 were Richard L. Foster (4253-1), standing, who completed the machinists training, and Ervin L. Smith (4231-3),
who completed electronic training. Both became Journeymen on June 5 .

## Five Sandia Papers at Nuclear Society Meet

Several Sandia technical papers were presented this week in San Diego during the 13th annual meeting of the American Nuclear Society
Those presented were:
"Creep Strain Prediction for Radioisotope Heat Source Capsules" by A. W. Mulendore (1122) and Charles Stein (1131).
"The Space Isotope Power Program" by A. J. Clark (9330)
"Thermal-Neutron-Induced-Defects in n-Type Cadmium Telluride" by C. E. Barnes (5212) and Chihi
versity of Michigan.
"Thermal Stress Analysis for the Sandia Pulsed Reactor II" by J. A. Reuscher Pulsed
"Neutronic Decoupling of Fast Burst Reactors" by R. L. Coats (5223).

## Technical Papers at Meetings in Canada, USSR

Three Sandia technical papers will be presented this month at meetings held outside of the United States.
"Angular Correlation of Positron Annihilation Radiation from Cerium Hydride" by R. C. Heckman (1134) and D. R. Gustafson, Wayne State University, will be given by Mr . Gustafson at the American Physical Society Meeting in Toronto, Canada, June 21-23. Physicists from both the United States and Canada will attend. F. F. Eichert (2210) will attend the Sixth Meeting of the International standards will present two Sandia-written papers be fore the Two Sandia-written papers beine (he Technical Committee 10-DrawThree Plane Concept", by P O Dill (2223) and "The Projected Tolerance Zone Concept" by P. A. Nicovich (2212)

## Three Sandians Awarded Doctorates



Adelbert L. Roark of Applied Mathematics Division I 5261 received his PhD degree in mathematics from the University of New Mexico during commencement exercises last week.
His doctoral dissertation was on "Approximation of Eigen Values and Eigen Functions of Convolution Kernels."
He received both BS and MA degrees in mathematics from the University of Kentucky, and has been with Sandia since September 1963 in numerical analysis work.


Donald F. Post of Advanced Electronics Systems Division 1425 received his PhD degree in electrical engineering during University of New Mexico commencement exercises last week.
His doctoral dissertation was on "An Analysis of the Signal Processing in a Radio Altimeter Utilizing Random Angle Modulation."
Both his BS and MS degrees in electrical engineering were conferred by the University of Colorado.
He has been assigned to Division 1425 since coming to Sandia in 1962.


Jerry A. Hood, supervisor of Radiation Effects Division 1435, was awarded a PhD degree in electrical engineering during recent commencement ex
University of New Mexico.
His dissertation was entitled "Effects of Nuclear Radiation on Oxidized Silicon Surfaces.'
He previously received a BS degree in EE from the University of Oklahoma and an MS from UNM.
Assigned to Electronic Components Department during his 11 years at Sandia he was on educational leave of absence from September 1965 to December 1966 to fulfill requirements for his doctorate.


DISCUSS WAR ON POVERTY-Bill Chandler (3112), left, and Bob Esterly (9414) are members of the Albuquerque - Bernalillo County Economic Opportunity Board which plans and coordinates war on poverty programs.
people with direction into the full participation of American life."
Many programs and institutions are involved in the neighborhood centers. The UNM Medical School is responsible for conducting pre-natal examinations and referring patients to community medical services. Classes are provided in consumer education, sewing, vocational skills, basic language and math, and mechanics. Day care is provided for children so that their mothers may work or take training leading to jobs. Staff people survey needs of the neighborhoods, help people organize credit unions, help organize cooperative purchasing and community improvement projects.
"Here is where the war on poverty is being won," Bob says. "Federal officials have evaluated Albuquerque's program and rank it among the most successful in the nation."

Projects of the Board are financed through Federal grants and matching local contributions. Under the program, local the matching funds requirer help the matching funds requirement of the Federal programs.

There is a great need," Bob says, "for volunteers to perform a number of tasks at the neighborhood centers and at the St. NW, tel. 242-2796. The staff could use general office workers, typists, teachers, nurses, doctors, counselors, social activity and recreation workers. Anyone who could volunteer as little as two hours per week on a regular schedule would be welcomed. There is much work to do and great satisfaction in doing it.

PAGE TWO
JUNE 16, 1967
SANDIA LAB NEWS

## SANDIA LAB NEWS



SANDIA LABORATORIES AlBuQUERQUE, NEW MEXICO
Operated for the United States Atomic
Energy Commission by Sandia Corporation


Editor: Reberert C. Colgan
Staff: Cherry Lou Burns, Robert P. Gall,


 the Editor, Sandial
that Nows.
the


PEACE CORPS VOLUNTEER Keith Christian stands between two sheepherders in the Elburz service with the Corps.

# LIVERMORE NEWS 

## Available to Sandians

## LRL Pool to Open on June 17

This year's swimming season will get with an open house on June 17.
As in the past, Sandia employees may participate in the pool program by join ing the Lawrence Radiation Laboratory
Recreation Association (RLRA), and then

## In East Pakistan \& Iran

## Keith Christian Serves with Peace Corps

Mechanical engineer Keith Christian (8146) has returned to Livermore Laboratory after serving two years with the Peace Corps in East Pakistan and Iran. Keith says it's nice to be back but that his two years in the Peace Corps were the most rewarding he has ever had. "Living in two countries so different from each ther and both totally unlike the United States was an experience both interesting and enjoyable, he commented, vantage point altered my own values in vantage point
"I found that the level of my living standard was relatively unimportant compared to the quality of the social and working relationships built up with the people around me," he added.
Peace Corps volunteers go through an familiarize them with the country they are assigned to. Technical training, when necessary, is also given. In Keith's case, he was sent to the Experiment in International Living at Putney, Vt., where he studied the customs, economics, politics, etc., of East Pakistan along with an intensive course in Bengali, the East Pakistan language
Keith says his first impression when flying into East Pakistan was that here is a rich agricultural country." From the air, everything looked very green, with rice fields, interrupted by groves of palm trees and many rivers, stretching to the horizon.
After living in the country for a year he felt differently. His first impression changed to "here is a potentially rich agricultural country."
Keith feels the abject poverty of the average farmer must be seen to be comprehended. If he can find work as a laborer, the farmer earns about 40 cents a day and very likely has to support a large money plus what rice he can raise on an money plus what rice he can raise on an
acre or two of land. His needs are so great that anything done to help him is significant. "This great need made hy work there very satisfying, although living conditions were quite primitive and unhealthy-over 200 inches of rain per year, temperatures over $100^{\circ} \mathrm{F}$. with 90 percent humidity for several months at a time, clouds of insects, and endemic diseases," says Keith. Initially, Keith designed and helped supervise the construction of bridges and buildings made from brick and reinforced concrete in the Sylhet area in the northeast corner of East Pakistan. These structures were indirectly financed by American aid. Under authority of Public Law 480 wheat was sent and sold in East Pakistan The funds from the sales were then used for development projects. Keith was involved with building about 15 bridges and three Thana development centers, which are large buildings used as working quarters by the Thana development officers a Thana is the basic governmental unit encompassing about 100,000 people)
Later, he helped to organize and teach a training course for Pakistani construction supervisors at the Basic Democracies Training Institute in Sylhet. When a Peace Corps engineers served as instruc tors, but most of the time Keith was on tors, but most of the time Keith was on
his own. "Generally the students were eager to learn, although they didn't have the drive or willingness to work with their hands that you could find with American students," Keith said. "They have little interest in doing a good job, possibly beinterest in doing a good job, possibly bependent on family connections than on

## job performance

"I regarded the work itself as being in the nature of a stopgap measure. The rea problem is a long-range one-the great population pressure on the land (50-60 million people in an area the size of Lou isiana) which makes the future agricultural requirements difficult to cope with. Population grows at such a rate as to more than eat up the increases in agri cultural production. The government of East Pakistan recognizes this problem and has instituted a birth control problem, bu it's not yet effective at the village level
This lack of population control made me, This lack of population control made me future for the people of East Pakistan," future for the people of East Pakistan." September 1965, Keith was evacuated from East Pakistan along with many othe Americans. He was sent to the Philippine Islands and after five weeks was reassigned to Iran.
Keith says his first impression of Iran was just the opposite of East Pakistan "All I could see was desert and barren mountains as we flew in. The surprise, on landing, was to find Teheran a modern vigorous city as contrasted to Dacca, the capital of East Pakistan, which gave the impression in some ways of being an over grown trading bazaar. This difference was noticeable at every level, down to and including the small farmer's house. "In Iran, although my living conditions were far better, I found the work less sat isfying. This was because of the relatively advanced condition of the country which reduced the possibilities of doing anything immediately significant," he said.
"However, I left the country feeling op


WEST GERMAN Peace Corps volunteer Anke Capelle, now Mrs. Keith Christian, met Keith in Iran. During his two years with the U.S. Peace Corps, Keith met other volunteers from the Peace Corps in Nor-
way, England, Switzerland and Holland.
timistic about the future of the Iranian people. This was primarily because Iran has no overpopulation problem, has undeveloped asricultural land available fo feeding a growing popule, a ber of educated people, a large amount development capital coming in each year from oirning the continued good health the Shah," the Shah.
In Teheran, he first learned to speak basic Farsi (Persian), the Iranian lan guage, through a federal training cours He then taught mechanical drawing at Ahwaz Agricultural College which is 10 cated in the southwest part of the country drew up plans for an expansion of the college's water purification plant.

The college, which seemed quite advanced to Keith, was run by American through a private organization called the Near East Foundation. The 250 student and a faculty of about 15 teachers (thre of whom were Americans) occupied an all new campus. Instructors were well trained largely in Europe and the United States, and the facilities were excellent, by Iranian standards, for classes, field work, and stu dent research. The college was in high de mand-for example, an estimated 400 applicants took the competitive examinations for the 75 openings in the freshman
Keith's service with the Peace Corps was also rewarding in that it gave him an opportunity to travel extensively. In ad dition to seven days in Bangkok and Hong Kong en route to Iran, he spent a total o 45 vacation days in India, Nepal, and Afghanistan. At the completion of hi Peace Corps assignments, he traveled through the Near East visiting Egyp and Ted Gold (8131) in Israel for a trip and Ted Gold
through Europe.
After leaving the Golds in Amsterdam Keith returned overland to Teheran where Keith returned overland to Teheran where unteer, Anke Capelle, whom he had met whteer, Anke Capelle,
During these two years, Keith came to know Peace Corps volunteers from severa countries other than the United State countries other than the United States and West Germany. "All of these foreign Peace Corps are organized along the same lines as the American Peace Corps, with similar structure, training and goals," he says. "Volunteers from different countries were often stationed in the same area and needless to say, got along very well together!"


IN EAST PAKISTAN Keith Christian and a ranking official stand in the noonday sun of several buildings for a Thana center. Keith was involved in the design and construction
either purchase a season ticket or pay a ingle admission fee each time they swim. sonnel building, features barbecue and picnic areas, basketball and volleyball courts, and a wading pool for youngsters. Last year the weatherbeaten structure which enclosed the pool was removed to provide outdoor swimming. An eight-foot concrete wall was built to the north and west for wind protection and the lockerroom building was renovated.
This spring several other improvements have been made to the pool facilities. A multi-purpose building has been completed and two covered patios have been added to the complex.


LINDA MAMAROS (8235) tests the diving board at the LRL pool scheduled to open fomorrow. A multi-purpose building and the pool facilities this year.

The following prices have been announced for the 1967 season Membership
Family membership .. . $\$ 29$
Individual membership
Adult $\begin{array}{r}-\quad . \quad . \quad . \quad . \quad .50 \\ \hline\end{array}$
Children
10-Ticket Guest Card
Adults .. $\qquad$
swimming lessons for both children dults are being offered again this year. Registration will be June 17-18, 2-5 p.m.
The pool schedule is 1-8 p.m. daily with noontime swimming (for employees only) Monday through Friday
Additional information may be obtained by calling Pat Jordan, LRL, ext. 7051.

## Welcome

Newcomers


## Congratulations

Mr. and Mrs. Ted Gold (8131), a daugh ter, Melissa Yvette, June 5.
Mr. and Mrs. Randy Gummus (8253), a son, Michael Gene, May 31.
Mr . and Mrs. Ted Hebebrand (8245), a daughter, Vicki Lynn, May 15.
Mr . and Mrs. Alan Richards (8117), a daughter, Michelle Ann, May 26.

## Sympathy

To Mike Daly (8131) for the death of To Nite Daly (8131) for the death of
his father in Union Dale, N. Y., May


RETIREES Naomi and Dick Wynant check out mountain roads they will be driving over

## Sandia Couple Arrange for First 'Coordinated' Retirement; June 30

Mr. and Mrs. Ralph R. (Dick) Wynant enjoy a unique situation. As man and wife, both employed by Sandia Corporation, they have been able to take advantage of pany's new retirement plan, thus becoming the first married couple at Sandia to arrange for a "coordinated retirement," Their last day at Sandia will be June 30.
Naomi Wynant joined the Company in June 1956 as a document clerk. In 1962 she transferred to her present job as editor in Drafting \& Engineering Services Section 2234-1. Before coming to Sandia, Naomi had been a physical education teacher.
Dick came to Sandia in May 1953 as an expediter in the Purchasing organization. He was with the MD engineering group from 1954-59 and then transferred to Interprojects Programming Section 2521-2 where for the past three years he has handled Sandia's sales to other integrated contractors.
The Wynant's immediate retirement plans include a six-week trip to Michigan and Canada to visit with family and friends. They have two sons - one attending college at Las Cruces, N. M., and the other married, with two In 1955, Dick and Naomi leased some land at Horseshoe Springs in the Jemez Mountains and began building their future retirement home. Except for the fireplace, they have done all the work themselves, with occasional help from friends. What started out as a "summer cabin" has evolved into a permanent home - four bedrooms, large living and dining room combination, kitchen, bath, library, 18- by $20-$ oot screened porch, and carport.
"We had to save a few projects to take care of after we retire," Dick says, "so we still have to install some paneling in our latest addition." "Other than that, the house is complete," Naomi adds, "but we are going to put in some sidewalks and build a woodshed."
"We plan to make this our year-around headquarters," Dick says. With this in mind, they recently purchased a four-wheel-drive vehicle so they can get in and
out during bad weather. ut during bad weather.
Including several homeowners in the area (including six other Sandia families) organized the Horseshoe Springs Summer fanized and 18 families became members ganized and 18 families became member of the Horseshoe Springs Water Associa-
tion, providing a gravity-fed water system for each member. Dick served as president of the group for two years and has been secretary-treasurer for the past six years. Future plans of the association include financing some road maintenance and possibly a caretaker-type operation for any vacant homes in the area.
"Knowing that Dick and I could retire on the same day and making our plans has been fun," Naomi says. "Our friends think it is wonderful that this is possible and we are especially looking forward to the 'dual-retirement party' that our two divisions are having for us." (For interested friends, 7 p.m., Wednesday, June 28, at the Sandia Base Officers Club.)
Dick agrees with Naomi about their plans. "We took a long vacation in Hawaii last year," he says, "but I'm enjoying this just as much. We're happy with our home in the mountains, we like to fish and travel; however, we have both enjoyed our 'tour
of duty' at Sandia."


JEMEZ MOUNTAINS retirement home of Dick and Naomi Wynant.

## Welcome

## Newcomers



## Sandian Finds Goats Climb Trees, Camels Plow Fields In Morocco

There are few American women who visit Moroces on their first trip abroad, but Donna Foor (3153) did
For several years Donna's sister and brother-in-law, who live in Park Ridge Ill., have asked her to accompany them on trips. She had always refused until last fall sounded like a great advanture.
They flew from Chicago to Casablanca via Lisbon and Madrid. "What impresse me first, Donna said, "was the great num ber of men wearing fez caps and djellabas which are long flowing garments with attached hoods. Many women wore face veils wirment and held one corner of it acros the lower part of their face."
Casablanca, a city of more than a million people, is noted for its main street lined with orange trees and its many beauKing's parks and gardens. They viewed the King's palace and grounds, and visite some of the fower markets. Donna notice flowers grow to specially large size occur in unusual colors (such as purple occur in
poppies)
They arrived at Marrakech for the start of Spring Festival, a week-long religious observance. There was great activi a day each family traditionally kills a lamb.
day each family tradition "The children were all dressed in bright colored, almost fluorescent, dresses tha reached their ankles. Many of their palms were stalned - a good luck ornen, Donn men on motorcycles with live sheep drapmen on motorcycles with
Adjacent to the regular market there was a group of entertainers - dancers snake charmers, acrobats, stunt bicyclist and others - hoping to collect a few coin from passersby. The boys who sell drinking water by the cup are among the most col orfully-dressed natives
"From our hotel window in Marrakech, we had a beautiful view of the snow capped Atlas Mountains, and the aroma of jasmine and orange blossoms filled the air It's no wonder that Winston Churchill liked this city as a retreat," she said
At Taroudant, they crossed the lush Souss Valley where oranges, dates, olives, almonds, grapes, flax and barley are grown as well as other produce such as bib let tuce, artichokes, carrots, tomatoes and squash. Many other parts of Morocco ar quite barren, and terraces have been buil near water sources to make use of ever bit of arable land.
To the south they visited Tafraout, which is tucked away amid huge red granit boulders in the Anti-Atlas Mountains.

Agadir on the coast may be remembered because of the disastrous earthquake in 1955 which killed 25,000 persons and vir-

## Events Calendar

June 16-18, 23-25 - Strindberg's "Ghost Sonata," Corrales Adobe Theater.
June $16-25$ - Tennessee Williams' "The Rose Tattoo." Greer Garson Theatre, Santa Fe .
June 17-Del Agua hike (north end of Juan Tabo Bowl). N.M. Mountain Club, leader Mary Dey, tel. 256-1970. June 17-18-Yiddish folk drama "Tevye der Milchiger," Old Town Studio, 1208 Rio Grande NW, for reservations tel. 242-4602
June 18, 21, 25 - June Music Festival, Lyric Art String Quartet of Houston with soloists, UNM Recital Hall.
June 19-UNM Lecture Under the Stars. F. T. C. Yu, educator, journalist and author, speaking on "Foreign News in the American Press."
June 23-24-Corn dances, Taos Pueblo and War Dance at San Juan Pueblo (June 24).

June 24-25-Truchas Peak area. N.M Mountain Club, leader Bob Babb, tel 256-901
June 26-UNM Lecture Under the Stars. J. E. Taft, an Audubon Society speaker, showing "The Shandon Hills.
June 28-Aug. 6-1967 Southwestern Crafts men's Exhibition, Museum of Inter national Folk Art, Santa Fe.
June 29-San Pedro's Day dances at most Pueblos including Acoma and San
Felipe. Felipe.


MARKET PLACES in Moroccan villages were always "must" stops for Donna Foor (3153) in dark glasses, and her sister during a
tually leveled the town. "The port and industrial sectors have been reconstructed, Donna said, and tourist facilities and The buildings are quite modern and mostly The buildings are quite modern and mostly skirts where adobe is used." skirts where adobe is used. stopped at Essapuira, where coats climb stopped at Essaouira, where goats climb
trees! There is a forest consisting mainly of argan trees whose fruit and foliage are eaten by the numerous goats of the region. After the fruits are goaten the pits are collected by the natives and pressed to make a cooking oil. The area is also known for its lobsters and examples of wood marquetry.
"When King Hassan II came to Washington to secure money for Morocco, he said, 'The people are poor but the country is rich.' This certainly seems to be true," ples, blind people and those with rickets. "People live in very crowded conditions surrounding the markets and use a community water well.
"Transportation is very poor throughout the country. The natives ride camels or burros and also use those animals to work in the fields. We saw only one train while in Morocco and it appeared to be very old. There is bus service between some of the towns but usually only once or twice a week. The roads are paved and relatively good but you can drive for miles without meeting another car.
"On the other hand, the food is delicious, the people are excellent craftsmen, and the country is very interesting, all of which make it a good place to visit," Donna concluded.


COLORFUL WATER CARRIERS were seen throughout Morocco by Donna Foor (3153) during her recent visit. The brass cups are drink of pure water


CHARLES STEIN (1131), left, chairman of the recent 1100 Organization conference, "The Metallurgy of Beryllium," conducts the closing round table discussion at the Coronado Club patio. The two-day conference, featuring national authorities as speakers, had an
out-of-town attendance of about 40 representatives of various government agencies, out-of-town attendance of about 40 representatives of various governmen
universities and private research institutions. About 150 Sandians attended.

## Care to Try Mensa? --It Might Be Fun, Bright and Challenging



Sharing opinions with other intelligent people capable of contributing to almost any topic is membership in a local Mensa group. Topics at Mensa meetings virtually cover the full range edge hum knowl edge. The basic, but
limiting, qualifica a Mersa limiting, qualification fol membership is to score hation on an 98 percent of the g intelligence test.
Mensa, a Latin word for table, is a round-table type of international organization where no one has special precedence. Mensas claim that, besides providing the base for many new friendships, the society of equals provides its members with a receptive but critical audience on which to try out ideas. People of all ages and vocations belong to Mensa International. The New Mexico group has a general meeting each month, usually featuring a speaker. Informal social gat
often held at members' homes

There is no set format for a Mensa getThere is no set format for a Mensa get discussion about any subject with a reasdiscussion about any subject with a reasunderstand him. Discussions may at times be profound, witty, or intensely serious, but the participants are always tolerant.
T. A. Allen (4233), one of eight Sandians who are members of the organization, feels that Mensa provides an excellent forum for intelligent people. "One never knows what the subject matter may be, but you can be assured that at least one member of the small local group is qualified to discuss any given topic," he says.
Currently he is interested in expanding the membership of the state chapter which now numbers about 45 people. He is especially enthusiastic about enrolling enough Sandians to form a Laboratory sub-group to meet during the lunch hour. He believes that a larger number of Sandians are qualified for membership.
Since its formation in 1945, the international non-profit society has grown to 15,000 members, some 9000 of whom are Americans.
Mensa International's annual membership fee is $\$ 7.50$ which covers the cost of the society's journals and other services. Applicants for membership in Mensa need only offer proof that they have a high enough intelligence quotient, or undergo Mensa's test. Sandians who believe they qualify for membership may contact Mr. Allen for additional information on membership procedures and the usually acceptable methods of submitting proof of
Individuals receiving, for example, a Score of at least 133 on the Stanford-
Binet, 130 on the Wechsler Adult IntelliBinet, 130 on the Wechsler Adult Intelligence Scale, or 148 on the Catell intelli-
qence test would qualify.

Applicants may also obtain test forms from the American Mensa Selection Agency, P. O. Box 86, Gravesend Station, Brcoklyn, N. Y., 11223. Candidates will be sent a preliminary do-it-yourself intelligence test to take at home. If the results of this test show that the applicant has a high enough intelligence quotient, he will undergo another test under supervised conditions.

Other Mensas at the Laboratory are V. Erbert (5512), J. H. Smith (9424), E. P. Quigley (2535), W. G. Brown (7532), Mrs. M. T. Harrison, F. H. Hannah and W. N. Dehon (all 3131)

## Local Universities Confer Degrees On Sandia Employee-Students



Bachelor's and Master's degrees were conferred upon a number of Sandians during the recent commencement exercises at the University of New Mexico and the University of Albuquerque.
Most of the student-employees completed their studies under Sandia's Educational Aids Plan.
Those receiving Master's degrees include: Donald A. Butel (5221), MS in civil engineering (structural mechanics). His undergraduate work was at Kansas State University where he earned a BS in civil engineering.
James W. Campbell (5612), MS degree in electrical engineering. He received his BS degree in EE from New Mexico State University.
John A. Cantwell (3114), MA degree in accounting. His Bachelor of Business Administration degree is from the University
Rexas at Arlington
Roe in my. Dun (1132), Master's de-
gree in physics. He already has both BS

L. H. Pitts

R. M. Workhoven
and MS degrees in ceramic engineering from Alfred University in New York state. George Lamb (3133), Master's degree in business administration. He received his BS degree in business administration from the University of Denver.
L. Herbert Pitts (3114), Master's degree in business administration. His BBA degree was conferred at the University of Oklahoma.
Robert M. Workhoven (7322), MS degree in mechanical engineering. He received his BS in ME from the University of Iowa.
Those receiving Bachelor's degrees in clude: Thomas E. Latta (7112), BS in physics, F. A. Leckman (3153), BBA in industrial administration, and Robert T Tuffnell (4121), BBA in accounting, all University of New Mexico; Edward A Salazar (1113), BS in chemistry, William T. Huntsman (3243) BA in English and William H. Swiss (3413), BA in English all from the University of Albuquerque

## 'Melmade' Camper Has Conveniences in Compact Space

The sleek white camper atop a matching pickup truck carries the brand "Melmade" which means it is the handiwork of Mel Pliner.
Right now Mel is in Arkansas with others from Operations Support Division 9228, assigned to JTF-2, and this is the major shakedown trip for his effort in selfcontained living.
Looking inside the camper, you'll first notice the brown tweed wall-to-wall carpeting, the Lauan mahogany walls, the yellow appliances, and the matching vinyltopped dinette table and kitchen counter. But, as Mel points out, "It's the niceties that count."
One of these features is a complete $3 / 4$ bath - truly unusual in a camper. There are two separate electric systems (12 volt DC and 110 volt AC), which do away with the need to change light bulbs when switching from one line to another. And for comfort in all kinds of weather, there is a built-in refrigerative-type air conditioner and a 9000 BTU butane space heater with thermostat. The camper is insulated with one-inch fiberglass.
Mel started dreaming about this travel unit shortly after he finished his first camper. He looked at many commercial models, decided which features he wanted to add, checked available appliances suit-
able for limited spaces, and started to draw his plans.
"My first problem was having to limit the height of the camper because I was building it in my garage and had to be able to get it through the door," Mel recalls.
What could have been a serious problem occurred when Mel framed for a particular type of picture window. When he tried to order the item, he found the manu facturer had stopped producing it and the nearest substitute was nine inches wider. Mel had to cut through the spruce frame and aluminum skin to make the window fit. He figures his actual construc ion time at around six months, working weekends and evenings.
The finished camper is 10 feet 6 inches long plus a 53 -inch area over the cab. It inch clearance inside, Mel has it mounted neh clearance inside. Mel has it mounted with 4 -speed transmission. For safety reasons, he uses 8 -ply heavy duty tires (rated at 3000 pounds each) on duty tires (rated are no outside tie-downs between camper and truck; instead, he installed four tur buckles inside the camper which attach to the frame of the truck bed. With the builtin jacks, Mel can move the camper on or off unaided in 15 minutes.
There is adequate sleeping space for five
adults. The over-cab area is $48 \times 75$ inche and features a large upholstered foam mat tress, a bookcase headboard, reading light, and windows on three sides. The dining table and seating area convert to another double-size bed with the foam cushions and bolsters serving as a mattress. A canvas hammock, normally stored under the cushions, fits into an area above the dinette for the fifth person.
Storage is no problem. There are shelves over the kitchen counter, above and below the refrigerator, floor-to-ceiling com partments outside the bath, and five draw ers and cabinet in the bathroom, plus a large closet.
For convenience there is a four-burner stove with full-size oven, double sinks and a three cubic foot refrigerator with freezer compartment large enough for two trays of ice and two steaks.
Locked doors outside the camper provide access to the six-gallon hot water heater, 12 -volt pressure pump, 20-gallon plastic water tank, 1500 -watt generator, 12 -volt heavy duty battery (charged by truck alternator or battery charger) and two butane bottles with their automatic crossover valve.
The only thing missing is a fireplace. Would he ever build another camper? "Well, not in a garage," Mel answers.

HOME CONVENIENCES not usually found in campers, were
included in this self-contained unit designed and built by Mel
Piner (9228). It's spacious enough to accommodate five.

READY TO ROLL in any direction (preferably where there's water), Mel displays his whole travel rig: truck-camper, 16 -foot boat with


## Supervisory Appointments


C. RAYMOND ALLS to supervisor of the newly created Systems Evalu ation and Product 1426, effective May 1426,
16. Ray joined a radar development group at the Lab
engineer in June 1954. In December 1959 he transferred to a systems evaluation group in Electronic Development Division 1422 where he has been evaluating preproduction hardware
Ray received his BS and MS degrees in electrical engineering from the University of Arkansas in June 1953 and June 1954 respectively.

From July 1946 to September 1949, he served with the U. S. Navy.
Ray is a member of Tau Beta Pi and the Institute of Electrical and Electronics Engineers.

(2)DAVID F. MCVEY to supervisor of the newly created Re-Entry Vehicle Aero Projects Division 9328, effective June 1. Dave joined the Laboratory's environmental testing group in July 1958 his's he worked as a test engineer in Sandia's radiant heat facility. In May 1961, he transferred to an aerodynamics design group in Aero- and Thermodynamics Deparment. There he participated in the design of the hypersonic wind tunnel and plasma jet racinties. Sandia rocket systems. In May 1065, he transferred to Pe-miry Studies Division 9326 where he has conducted studies on arodynamics heat concter and ablation Dave received his BS degree in mechan ical engineering with an aeronautics option from the University of Wyoming in June 1958 and an MS in mechanical engineering from the University of New Mexico in June 1962. He completed requirements for his masters' under Sandia's Technical Development Program.

Dave is a member of Sigma Tau and American Institute of Aeronautics and Astronautics.

## Take Note



JIM LEONARD with Sandia Employees Golf Association traveling hole-in-one trophy.

James A. Leonard (9331) recently made a hole-in-one on the 165 -yard second hole of the University of New Mexico's South Golf Course. It was the first hole-in-one on that particular hole and the third to be sunk on the new course. Jim used a six iron. Other members of the foursome wer G. L. Morter (9221), C. C. Fornero (2523) and B. A. Clouse (2525).
Low gross champion of the annual Fred J. Given Memorial Golf Tournament was

Dick Kidd (1515) with a score of 73 . Dick is the only Sandian to take the championship twice. He won low gross honors in 1961. Ivan Wright (4513) was low net winner with 65 .
The tournament was played June 3 at Los Altos municipal course with 127 Sandians participating.
R. A. Quelle (3122), Sandia's pre-retirement counselor, will be participating in the ment counselor, will be participating in the national conference of state executives on He is currently a member of the technica* review committee for the State Program on Aging and has served on other governor's committees on aging in the past. Two years ago, he participated in a sim ilar national conference in Washington.

Frank Muller (2113) and H. E. Walker (2151) won the Seventh Annual Open Pairs Duplicate Bridge Tournament at the Coronado Club June 8. Their winning climaxed a series of duplicate bridge competitions conducted during the lunch hours in various Laboratory buildings during recent months.

Since the Sandia Employees Bridge Association was formed in 1963, it has experienced continued growth. The recent tournament had a record high in parSandia bridge players, 54 qualified for the final competition.
Anyone interested in joining the asso Anyone interested in joining the asso-
 information.


THE HONORABLE M. CARL WALSKE, Jr. (right), Assistant Secretary of Defense for Atomic Energy and Chairman of the Military Liaison Committee to the Atomic Energy Commission, Walske, who succeeded $W$. Howard during a recenernment post, met with Laboratory personnel for briefings on Sandia programs.
a week on the job, are typical of the enthusiastic youngsters. They find Sandia an exciting place, full of busy people performing important work.


LEO GALLEGOS
LEO GALLEGOS is working in Records Depository 3428-2 this summer. He is helping with the preparation of records for microfilming and will help operate the microfilm camera.
Leo graduated from Rio Grande High School recently and will be observing his 18 th birthday tomorrow. At Rio Grande, chems to mase chemistry his major he plans to make chemistry his major when next fall.
ext fall
For the past two years, he has worked after school and during the summer at a service station.


THERESA OLGUIN

THERESA OLGUIN is finding her first "real job" exciting. She is a typist with

## Welcome

Youth Opportunity Trainees


Secretarial Section 3126-1 temporarily assigned to office duties in Instrumentation Fielding Division II 7124. Last week she was typing technical drafts, filing, and forwarding mail to Division personnel in the field.
Theresa graduated from Valley High School early this month. At Valley she was an honor student and active in tuadent organizations and athletics. She took two years of typing and shorthand and plans to next fall.
phasis. "It it here," she says with emphasis. "It feels good to be useful and part of an important activity. There is so much to learn and the people ar cited about it."


RICHARD JACKSON

RICHARD JACKSON is at Sandia for his third summer. He is assigned to Measurements Development Division II 7122. His current assignment is to help build and test a specimen holder for instrumentation to be subjected to radiation in Sandia's pulsed reactor
His first summer at Sandia was spent helping operators of a firing site in Area $Y$, and last summer he worked in the thermal properties laboratory in the Materials organization.
He will be a junior in mechanical engineering at UNM next fall.
"Working at Sandia has been a wonderful experience for me," he says. "The practical experience in an R\&D laboratory picatiuable when relating theory to ap direction to my studies and actuall hection to my studies and actually shaped my decision to major in mechan ical engineering."


JOHN HEBERT III

JOHN HEBERT III is a young man with an impressive school record and an aman impressive school record and an ambition to become a doctor. This is his second summer at Sandia. He worked with last summer and is currently assigned to assist the staff in the helium gun facility Dynamic Stress Research Division 5133 . Dynamic Stress Research Division 5133. High School where he was president of the senior class and consistently on the the senior class and consistently on the council affairs and student organizationa activities.
"I'm happy to be back at Sandia," he says. "The job is a tremendous experience and it will make enrollment at UNM pos sible next fall. I will major in biology and hopefully go on to medical school."

## Retiring

## Earl V. Shannon,

 a staff assistant in Electro-Optics Division 9232, retires oday. He has worked in electronics since first employed by Sandia in February 1949. He was assigned toSalton Sea Test Salton Sea Test Base for five years
 has participated in a number of tests the South Pacific and in Nevada
Earl says he has so many things to do after his retirement that he may not have time for them all. He will be involved with the sale of his recently published book, WEWS May 5,1967 ); he will spend some NEWS, May 5,1967 , he will spend some time on localions in will be the belopment of property near Golden . . for a pold placer mining operation N. M., for a gold placer mining operation firm incorporated gecially to develop his property and "I'm excited about get ing on with the job", he says. In the past, lack of water in this area has prevented any large scale mining, but Earl olved that He found water and now has well with a water supply large enough o take care of the operation.
Mr. and Mrs. Shannon live at 3329 Monte Vista NE, but for the next few months at least, you'll find Earl moving lots of earth up around Golden.

## 10 Years

ne 16.29








Joseph D. Duran, Coyote \& Shock Tube Division 7343 , retires from Sandia today. He joined the Company in July 1948 in the Field Test organiza tion. From 1949-59 his work involved camera mainte 1959-62 he worked with high sped 1959-62 he worked with high speed cam purposes During these years he was sta purposes. During hea cury. Since 1962 he has been assigned to Coyote Test Field.
Joe has one son and two grandchildren His son is a Warrant Officer in the U. S Navy, stationed at San Diego. Joe plan to visit with him following his retire ment. Other travel plans include visiting with relatives in New York, Washington and Nebraska.
"When I return from my trips," Joe says, "I expect to be busy with my woodworking hobby. I have a fully equipped shop and lots of ideas."

## Sympathy

To Ben Garcia (2522) for the death of his mother in Riverside, Calif., May 5. To Daris Fuller (9423) for the death of his brother in Bradford, Pa., May 6.
E. P. Quigley (2565) for the death of his mother, May 15
To T. B. Sherwin (3430) for the death of his father in Cody, Wyo., May 30.
To J. H. Simmons (4512-4) for the death of his wife, June 7.
To D. M. Fenstermacher (7224) for the death of his wife, June 10.

## PAGE SEVEN

JUNE 16, 1967
SANDIA LAB NEWS

SHOPPING CENTER

|  |
| :---: |

## FOR SALE

real estat
 20sSMAN 3 -ddr., separate dining, paneled den








 below appraisal, S17,950. Price, 298.0262.
3.BDR.
pis



 Faitax Dr. Paradise Hills, Dilivira, 898-2170.
 1-650-2611.

CARS and trucks








 ${ }^{6} 64$ Ford Fairlane (289), V-8, AT, 20,800 miles.
 ${ }^{4} 19$ Flymouth, nuss, make offer. Coonce, 296 -
 ${ }^{5} 5 \mathrm{CHEV}$ 2.d.dr. sedan, Re\&H, new batery and volt-







 ${ }^{6} 66$ Scout Cutom-800, 4 sppd., $4 / \mathrm{wd}$, Re\&H, rear


## miscellaneous

 | '67 Fond |
| :--- |
| 726427 cu. in. cylinder heads. Reif, 265 . |



 '53 HARLEYY DDVIDSon 74 , new tires. buddy seat.
battery, windstield, $\$ 450$. Foster, 282 23112.

## SHOPPING CENTER



$30^{\circ}$ E ELECTRIC Stove, GE, Wite S60 Suc GASOLINE ENGINES: Power Products, approx.


 WEDING DRESS,
 Dawson, 265.1153.

 KENMORE automatic washer, , S45: Norpe diver, S35
or both
S70. Mac Dounall, 7500
MNNerne
NE. $8 \times 10$ TRALLER Euilding, insulated, butane, electric

KENMORE electric. ${ }^{\text {range. }}$. 36 ", deep well bumer,
 WELSH FONY, pentle, 5 years old, w/bridle, $\$ 60$
 ELECTRIC range, Hotpoint, $\$ 35$. Kohl, 268 -3754.

 CANOE. Northway 16, fiberolass, S175. Littell, BED rollaway type, 520 . Blottrer, 2989-9459. BABY BUGGY, S10. Mcevey, 299-1994. WINDOW FAN 20" 3 -sped, persible, tits 30
 SIAMESE kitinens, 8 weeks old, housebrocken. Hayes,
$299-1200$, ELECTRIC range, Westinghouse, 3 bumers plus deep
well, $\$ 30$. Durrin, 298-6433. REFRIGERATOR, apt. size, \$35. West, 299.6695 WARD'S CAMPING Urailer sell for 5225 or tradid sieens fourr. Mollore, 299.4975.
 GOLDEN retrieerer puppies, AKC. Lemis, 299.0588. ${ }^{6} 64$ DUCAT1 motorecyle 250 ece, see to appreciate



SHOPPING CENTER
 ant brackese 3. Schater, 299.6217,



 p..m,

REFRIGERATOR, Westin-house, 9 cu. ft., $\$ 35$.
Coughenour, $295-4146$. REFRIGGERRATOR. \$35. Hutton, 256-0504.
KELVINATOR electric range, '56 model, 40", foil
 TENT T TRALLER, MW, s100 as is. Hobart, 282 ${ }_{\text {REFRIGEEATOR, Crosley, }}$ 9'. Worley, 298-4039. BAGBYY golf cart and bag: dishwsherer, Kenmore portable; Chander, 296-3223.

 3-PIECE Sectional couch, turquoise, with round
 ${ }^{20}{ }_{298-89954 .}$ BICYCLE, boy's or girl's. $\$ 15$. Thompson

 BADMNTON RACKETS, four Spauldiny. two double
frames, all for sio. Mekininey, 268 -4779.
 Richarsison, 298-48681.

 COLEMAN STOUE, 58 ; electric hotphate, $\$ 5 ;$ Kero-
sene hater,
$\$ 10$. Moore,


SHOPPING CENTER

## WANTED

RIDE from vicinity Freeman and Fouth NW , to

 COLLEEE sesior will cora for chitiden and home
 MoTorcrycle helmet. used. Mellone, 2988.6499.




 SMALL Maxk, 282 ne-3482. spece heater w/automatic controls. PICKUP TRUCK and overab camper, GMC-Cherovel Forith prefere aitomatic trans., will pay cash
Snitha,
2299-1096.

 RIDER from. Menal. San Peetro NE area to 880 or
887 parking lot. Sisiners, $2688-2163$. ROTARY PPWEE MoWER and patio funiture, prefer

## FOR RENT


 242-4858


## LOST AND FOUND

LosT-59 class ring, prescription plasses in brom





## Social Hour Buffets Will Feature Exotic Food for Friday Frolicking

Under the direction of Hubert Pee, the Coronado Club's well-traveled manager, a series of exotic buffets will be featured for the next three Social Hours. Mr. Pée, born in Belgium of British parents, collected recipes throughout the world during his tenure as a chef with the Royal Air Force and later as a club management specialist for oil companies in the Persian Gulf area. Tonight, Polynesian food with the flavor of Tahiti and Bora-Bora will be spread for the buffet. Tommy Kelly will maestro the hula music while Mike Michnovicz with accordion will circulate in the main lounge. The buffet costs $\$ 1.75$ for adults, $\$ 1.50$ or kids.
On Friday, June 23, the buffet will consist of local goodies - the very best tacos, enchiladas and the les. Masters $\$ 1.25$ far thults, $\$ 1$ for children price is $\$ 1.25$ for adu 30 Chinese food will on featured at the buffet Max Madrid and be mandarins will kick the gong around The manda is $\$ 1.50$ for adults, $\$ 1.25$ for children.

## Teenage Go-Go

Tomorrow from 7:30 until 10:30 p.m. Roger and the Sapphires will furnish the uproar on the sound system wisual gyrations Parents should pick up tickets (members arents suests 50 cents) by 5 pm manana at the Club office.

Invitational Swim Mee
The Coronado Club twin pools will be closed for recreational swimming to morrow as the swim team hosts its annual invitational swimming meet. The meet starts at 6 p.m. this evening with diving competicion. Swimming competition wil start at 8 a.m. tomorrow. Seven teams neluaing santa will pormater Farmington are welcome, no charge

## Bridge

Duplicate bridge meeis at 7 p.m. Monday, June 19. ACF bridge meets Wednesday, June 21 , at 7 p.m. The monthly master point bridge competition will be held Monday, June 26 at 7 p.m.


GO NATIVE to the Coronado Club's Polynesian Luau Saturday, June 24. Mary Alice Flores (4311) likes sarongs but you re invited to wear your grass skirt. The fun starts at 6 p.m. Phil Graham's orchestra will play the hula after the buffet and entertainment by the Lum Lung Polynesian show.

Luau
High point of the remaining June Club calendar is the Luau scheduled Saturday June 24. The scene will be among the gas lamps in the Club patio starting at $6 \mathrm{p} . \mathrm{m}$ Social hour prices will prevail until dinne at 7 p.m. A special Polynesian buffet wil be spread and the Lum Lung Polynesian Show is scheduled for entertainment at 8 p.m. Phil Graham's orchestra will play for dancing starting at 9 p.m.

Informal attire (grass skirts preferred is in order. Admission is $\$ 3.50$ for mem bers, $\$ 4$ for guests. Tickets should be picked up at the Club office by 9 p.m. Friday June 23. bus makes a return trip through
o the Laboratory about $12: 45$.
H. E. Walker (2151), Reliabilty Assess Technical Conference of the American Society for Quality Control, May 31-June 2, Chicago.
D. W. Ballard (2564), "First-Hand Impressions of Life Behind the Iron Curtain," South Valley Optimist Club on May 17, local section of National Society of Professional Engineers on May 22, Downtown Optimist Club on June 2; "Recent Advancements in Contamination Control," Albuquerque Rotary Club, June 8.
S. W. Key (1142), "Convergence and the Finite Element Method," Department of Engineering Mechanics, Louisiana State University, May 10; "Reissner's Variational Principle and the Finite Element Method," Department of Mechanical Engineering, University of New Mexico, May 17
C. S. Johnson (7252), "Modern Man's Guides to Mature Living, New Mexico group of the National Association of Bank Women, May 20
C. A. Olson (7221), "Cloud Seeding," North Albuquerque Lions Club, May 23. R. M. Jefferson ( 5224 ), "Nuclear Reactors," Downtown Optimist Club, May 26. G. W. Hughes (7224), "General Astronomy," Hoover Jr. High science classes, May 31.


Technical Development Class of 1967 - "We must constantly adapt to new fields



BUS SERVICE to and from the Coronado Club during noon hours has averaged about 50 passengers daily. Buses depart from Gate 1 and the front of Bldg. 892 at 12:05. One

## Speakers

W. H. Trump, R. E. Day and Jean Gillette (all 3132), "An Overview of Sandia Training," UNM business education graduate students, May 30
A. F. Cone (2430), "The Vendor-Vendee Committee," 1967 ASQC 21st annual conference, Miay 31, Chicago
W. H. Kingsley (3310), "The Environmental Health Program at Sandia Laboratory," to health personnel from Western Electric Company complex during American Industrial Hygiene Association meeting, May 1, Chicago.
C W Campbell (4000), "Community Council Activities," Telephone Pioneers of America, June 8, Albuquerque.

## Continued from Page One

49 Complete TDP
(9235), Bruce J. Hodgins (5612)

Albert A. Lemieux (7334), Leonard D Licking (2152), Alton D. Luckey (9325) Lawrence R. Marker (7222), Gary H Mauth (9233), Marvin E. Morris (2564), Milo Navratil (1524), John K. Owens (9226), James M. Parvin (9231), Paul W Plomp (2223), Robert S. Printis (5612) David E. Ryerson (7252), Donald H Schroeder (2542), Douglas D. Schule A Sheffield (1315), William W Shurt leff (7334), Wayne D Sundberg (9321) Daniel M Talbert (5621), Patrick L Walter (7336) and Sidney G. Williams (1422)

## Sandia Safety Signals

## Car Loading

When you overload your car you increase problems, for the acceleration is slower, stopping distance longer and sway on curves greater. Be sure to al low plenty of room for passing and stopping

## Label

We heard about an amateur photog rapher who narrowly missed death when he mistook a potassium cyanide solution for lemonade.

Containers used for chemicals should be clearly marked and set aside, so they will not be mistaken for food.

## Suffocation

Two University of California students camping in the High Sierra Mountains died of suffocation beneath a heavy plastic cover which they had used as a tent. With increasing use of plastic tarps as rain shelhers, the need for

